

down, slightly canaliculate upwards, uniformly dark green with reddish tinge, without spots or markings; *lower surface* convex, otherwise as the upper; *marginal teeth* reddish-brown, pungent, deltoid about 5 mm. long and 10—20 mm. distant.

Inflorescence 2 simultaneously, up to 1 m. high, divaricately 7—10-branched from below the middle, the lowest branches sometimes with 1—2 branchlets, the *peduncle* plano-convex and 15—20 mm. broad at base.

Racemes cylindric, 15—20 cm. long, 7 cm. diam., very laxly flowered, the terminal ascending with the flowers more or less evenly distributed around the axis, the others sometimes almost horizontal and with their flowers more or less secund.

Pedicels 6—8 mm. long.

Bracts small, ovate-acute, dirty-white, 5 mm. long, 4 mm. broad, 3—5-nerved.

Perianth scarlet, paler at mouth, slightly striped, cylindric-trigonous, 30 mm. long, basally rounded, cylindric and 7 mm. diam. across the ovary, trigonous upwards; *outer segments* free to the middle (15 mm.), paler at the margins, the pale colour continuing to base and giving the flower a somewhat striped effect; *inner segments* broader than the outer, with broad pale-orange border, and with 3 crowded nerves forming a scarlet keel, the apices more obtuse, more spreading than the outer.

Anthers exserted 1—2 mm. *Stigma* at length exserted 2—3 mm. *Ovary* olive-green, 6 mm. long, 3 mm. diam.

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TWO NEW ALOES FROM MADAGASCAR

G. W. REYNOLDS

(With Plates XLIV–XLVII)

Aloe fievetii Reynolds. Species nova, affinis *A. capitata* Bak, foliis angustioribus brevioribusque, inflorescentia breviori 2-ramosa, segmentibus exterioribus ad 13 mm. liberis, genitalibus brevissime exsertis differt.

Planta acaulis vel breviter caulescens. *Folia* 12–16, dense rosulata, patentia, lanceolato-attenuata, 30–35 cm. longa, 5–6 cm. lata; *supra* viridia, leviter canaliculata; *subtus* convexa, viridia; marginibus dentibus deltoideis rubris 2–3 mm. longis, 7–10 mm. distantibus munita.

Inflorescentia saepe 1-ramosa, c. 50 cm. alta. *Racemi* corymbosocapitati, c. 4 cm. longi, 9 cm. diam. *Bracteae* ovato-acutae, 5 mm. longae, 4 mm. latae, 3-nervatae. *Pedicelli* 30 mm. longi. *Perianthium* aurantiacum, cylindrico-clavatum, 27 mm. longum, circa ovarium 5–6 mm. diametro, hinc trigono-ampliatum; *segmenta exteriora* per 13 mm. libera. *Antherae* 0–1 mm. exsertae. *Stigma* demum 1 mm. exsertum. *Ovarium* viridulum 6 mm. longum, 2.5 mm. diam.

MADAGASCAR. Fianarantsoa Province, on granite rocks 30 km NW of Fianarantsoa, coll. Mr. Gerard Fievet, cult. Mbabane, Swaziland, fl. 1 June 1965, Reynolds 11620 (Rauh 10332) holotype (PRE), isotype (K, P, TAN).

Our new species is named after Mr. Gerard Fievet who discovered plants on granite rocks 30 km. NW of Fianarantsoa near the village Andomarano-maitso (meaning “green water”) at an elevation of 1200 m., with plants of *A. haworthioides* Bak., and the showy *A. capitata* Bak. var. *quartziticola* H. Perr. growing nearby.

It seems that *A. fievetii* is nearest allied to the typical form of *A. capitata* from which it differs in being a smaller plant with comparatively narrower channelled leaves, and in having a much lower (50 cm.) inflorescence which is mostly only 1-branched; the perianth is nearer slightly clavate than campanulate, while the outer segments are free only to the middle—not to base as in *A. capitata*. Anthers and stigma are exceedingly shortly exserted. The flowers of *A. fievetii* open from the bottom of racemes upwards—not from the apex downwards as occurs in *A. capitata*.

DESCRIPTION: *Plants* acaulescent or with short stem, mostly solitary.

Leaves 12–16, densely rosulate, spreading, narrowly lanceolate-attenuate, averaging 35 cm. long, 5–6 cm. broad at base; *upper surface* unicoloured-green with slight reddish tinge, flat low down, concave to canaliculate upwards;



PLATE XLIV

Aloe fievetii Reynolds

Plant from 25 km. NW of Fianarantsoa, Madagascar, flowering at Mbabane, Swaziland.
Height 50 cm.



PLATE XLV

Aloe fievetii Reynolds

Buds and flowers 1/1

lower surface convex, green with slight reddish tinge in upper half; *margins* with a reddish-pink edge armed with deltoid teeth of the same colour, that are 2—3 mm. long, 7—10 mm. apart low down, smaller and more distant upwards, the leaf apex slightly twisted to the left, shortly rounded and with 3—4 very small teeth.

Inflorescence simple or 1-branched, up to 50 cm. tall.

Peduncle basally plano-convex and 16 mm. broad.

Raceme corymbose-capitate, densely many-flowered, about 9 cm. across, the pedicellate portion 4 cm. long, the buds dull scarlet, suberect, open flowers orange-yellow, nutant to subpendulous.

Bracts ovate-acute, brownish-red with membranous edge, 5 mm. long, 5 mm. broad at base, 3-nerved.

Pedicels 30 mm. long, the youngest suberect and straighter, the lowest more oblique and nutant at apex.

Perianth orange, cylindric slightly clavate, 27—30 mm. long, basally obtusely obconic, cylindric and 5—6 mm. diam. across the ovary, thence enlarging trigonously to a wide open mouth; *outer segments* free to the middle (14 mm.) with 3 greenish nerves; *inner segments* themselves free but dorsally adnate to the outer to the middle, broader than the outer and with a prominent greenish median nerve, the apices more obtuse.

Filaments very pale-yellow, the 3 inner narrower and lengthening before the 3 outer with their *anthers* in turn exerted 0—1 mm. *Stigma* at length exerted 1 mm.

Ovary green, 6 mm. long, 2·5 mm. diam.

A. *cryptoflora* Reynolds. Species nova, affinis *A. conifera* H. Perr. floribus sessilibus, sed foliis laete viridibus nec glaucescentibus differt; affinis *A. fievettii* Reynolds foliis viridibus, sed floribus brevioribus sessilibus differt.

Planta succulenta, acaulis vel breviter caulescens. *Folia* c. 15—20, dense rosulata, lanceolato-attenuata, 20—25 cm. longa, basi 6 cm. lata; *supra* planiuscula, viridia, immaculata; *subtus* convexa, viridia; marginibus linea cartilaginea rubra dentibusque deltoideis rubris 2—3 mm. longis, 5—10 mm. distantibus munita.

Inflorescentia simplex vel 1-ramosa, 40 cm. (interdum 60 cm.) alta. *Racemi* cylindrico-conici, 14 cm. longi, 3 cm. diam., densissime multiflores. *Bracteae* dense imbricatae, late ovato-orbiculares, crassae, carnosae, 11 mm. longae, 12 mm. latae, 7—9-nervatae. *Pedicelli* nulli. *Perianthium* sessile, cylindrico-campanulatum, levissime trigonum, luteum, 10 mm. longum; *segmenta exteriora* libera, 3—5-nervata. *Antherae* per 2—3 mm. exsertae. *Stigma* demum 3 mm. exsertum. *Ovarium* viridulum, 4 mm. longum, 2 mm. diametro.



PLATE XLVI

Aloe cryptoflora Reynolds

Plant from 25 km. NW of Fianarantsoa, Madagascar, flowering at Mbabane, Swaziland.
Height 55 cm.



PLATE XLVII

Aloe cryptoflora Reynolds

Upper: Buds and flowers 1/1 hidden by their bracts.

Lower: Buds and flowers 1/1 with bracts removed; bract 1/1 at night.